## IN THE CLAIMS:

Claims 30, 35-48, 50, 52-53, 57, 64-65, and 67-69 were previously cancelled without prejudice. Please now cancel claims 10 and 70 without prejudice, add new claims 71-84 and amend the claims as follows:

- 1. (Currently Amended) A system, comprising:
  - a deflector comprising
- a deflector body <u>disposed inside a body of water characterized by a tilt angle</u> relative to vertical, wherein the tilt angle controls a depth in which the deflector body is disposed; coupled by a towing cable to a vessel;
- a bridle connected to a seismic cable, the bridle having a first upper segment secured to a first upper connection point on the deflector body and a first lower segment secured to a first lower connection point on the deflector body, wherein a length of the first upper segment and a length of the first lower segment is used to define a ratio; and

a first actuator for varying the angle of attack of the deflector body; and

aan second actuator coupled to the bridle, wherein the actuator is configured to for varying the tilt angle of the deflector body; and

atleast one bridle connected to a seismic cable, the bridle including:

- a first upper segment coupled to a first upper connection point on the deflector body;
- a first lower segment coupled to a first lower connection point on the deflector body;
- a second upper segment coupled to a second upper connection point transverse the first upper connection point on the deflector body;
- a second lower segment coupled to a second lower connection point transverse the first upper connection point on the deflector body, and wherein the second actuator adjust[[s]] the ratio of the length[[s]] of the first upper segment and the second upper segment to the length[[s]] of the first lower segment and the second lower segment to control vary the tilt angle of the deflector body.

thereby controlling the depth of the deflector body as the deflector body is being towed

## inside the body of water by the vessel.

- 2. (Currently Amended) The system of claim 1, wherein the second actuator adjusts the length of the first upper segment and the second upper segment of the bridle relative to the length of the first lower segment and the second lower segment of the bridle.
- 3. (Original) The system of claim 1, wherein the <u>first</u> upper connection point and the first lower connection point each comprise at least one rotatable towpoint.
- 4. (Original) The system of claim 3, wherein the rotatable towpoints include lever arms, pulleys, or a combination thereof.
- 5. (Original) The system of claim 4, further comprising a further bridle segment extending between the rotatable towpoints.
- 6. (Original) The system of claim 5, wherein the further bridle segment is connected to the <u>first upper segment and the first lower bridle segment[[s]].</u>
- 7. (Original) The system of claim 4, wherein the rotatable towpoints are pulleys, and wherein the bridle segments form a loop that extends around the pulleys.
- 8. (Currently Amended) The system of claim 5, wherein the first\_actuator, second actuator, or both repositions the further bridle segment extending between the rotatable towpoints.
- 9. (Currently Amended) The system of claim 1, wherein the first\_actuator, second actuator, or both repositions the first\_upper connection point, the first\_lower connection point, or a combination thereof.
- 10. (Cancelled)

- 11. (Original) The system of claim 1, wherein the deflector body is selected from a wing deflector and a deflector door.
- 12. (Original) The system of claim 1, wherein the deflector body includes a buoyancy element.
- 13. (Original) The system of claim 1, wherein the deflector body is part of a deflector that is slightly negatively buoyant.
- 14. (Currently Amended) The system of claim 1, further comprising:— a controller in communication with the first-actuator, second actuator or both.
- 15. (Currently Amended) The system of claim 14, further comprising:
- a sensor for measuring at least one parameter of the deflector and communicating the at least one parameter measurement to the controller, wherein the controller provides a command to the first actuator, second actuator or both to achieve at least one parameter setpoint.
- 16. (Original) The system of claim 15, wherein the at least one parameter is selected from depth of the deflector, motion of the deflector, orientation of the deflector, and combinations thereof.
- 17. (Original) The system of claim 15, wherein the controller is located within the deflector, the system further comprising a remotely located controller for providing the setpoint depth to the controller within the deflector.
- 18. (Currently Amended) The system of claim 15, wherein the remotely located controller is <u>remotely</u> located on the vessel.
- 19. (Original) The system of claim 1, wherein the seismic cable is a lead-in.

- 20. (Original) The system of claim 1, wherein the seismic cable is a streamer.
- 21. (Original) The system of claim 1, wherein the deflector is not suspended from a separate flotation device.
- 22. (Original) The system of claim 1, wherein the deflector is independent from a separate flotation device.
- 23. (Currently Amended) The system of claim 22, wherein an upper end of the deflector has more buoyancy that than the lower end of the deflector.
- 24. (Original) The system of claim 1, wherein the deflector comprises: a weight element mounted on the lower end of the deflector body; and a buoyancy element mounted on the upper end of the deflector body.
- 25. (Currently Amended) The system of claim 14, wherein the controller causes the first actuator, second actuator or both to vary the an angle between the deflector and the seismic cable so that the vertical component of lift from the deflector is substantially equal to the vertical component of gravity minus the vertical component of tension in the seismic cable.
- 26. (Original) The system of claim 1, wherein the deflector body has a streamlined configuration with a longitudinal axis extending generally downwardly in use.
- 27. (Original) The system of claim 26, wherein the <u>first\_upper\_segment\_and\_the\_first\_lower\_segment[[s]]</u> of the bridle are connected to the deflector body on a line extending parallel to the longitudinal axis of the deflector body.

- 28. (Original) The system of claim 27, wherein the line is forward of the longitudinal axis.
- 29. (Original) The system of claim 27, wherein the <u>first\_upper\_segment\_and\_the</u> first lower segment[[s]] have a length that is adjustable.
- 30. (Cancelled)
- 31. (Currently Amended) The system of claim [[30]]1, wherein the deflector body is selected from a wing deflector and a deflector door.
- 32. (Currently Amended) The system of claim 1, further comprising: a pivot float attached to the <u>seismic</u> cable forward of the deflector body.
- 33. (Original) The system of claim 32, wherein the pivot float serves as a pivot point from which the deflector pivots when the deflector depth is adjusted.
- 34. (Currently Amended) The system of claim 1, wherein the first actuator and the second actuator are adjusts the ratio using a load balanced balancing principle.
- 35-48. (Cancelled)
- 49. (Currently Amended) A method for controlling thea\_depth of a deflector under tow, comprising:

providing coupling a deflector to a bridle; coupled by a towing cable,

coupling the bridle to a towing cable;

coupling the towing cable to a vessel;

providing coupling a first segment of the a bridle that defines first and second segments extending between a cable connection point and respective to a first upper left rotatable towpoint and upper right rotatable towpoints on the deflector; and

coupling a third second segment and fourth segments of the bridle extending between the cable connection point and respective to a first lower left rotatable towpoint and lower right rotatable towpoints on the deflector;

towing the deflector behind the vessel, thereby forming a tilt angle between the deflector and a vertical; and

adjusting the ratio of the length[[s]] of the first and second segment[[s]] to the length[[s]] of the third and fourthsecond segment[[s]] to control vary the tilt angle between the deflector and the vertical tow cable using the first upper rotatable towpoint and the first lower rotatable towpoint, thereby controlling the depth of the deflector inside a body of water as the deflector is being towed behind the vessel.

- 50. (Cancelled)
- 51. (Original) The method of claim 49, further comprising: remotely controlling the tilt angle to change the depth.
- 52-53 (Cancelled)
- 54. (Original) The method of claim 49, further comprising: measuring the depth of the deflector; and providing a command for the deflector to achieve a different depth.
- 55. (Currently Amended) The method of claim 49, further comprising:

  adjusting the first upper rotatable towpoint or the first lower rotatable towpoint or

  both a tow-point with respect to the deflector body between the forward and rearward edges thereof.
- 56. (Currently Amended) The method of claim 49, further comprising: coupling a float to the <u>towing</u> cable upstream of the deflector, wherein a change in the tilt angle causes the deflector to pivot about the float.

- 57. (Cancelled)
- 58. (Currently Amended) The method of claim 49, wherein the <u>first\_upper connection point\_and the first\_lower connection point[[s]]</u> are rotatable towpoints comprising lever arms, pulleys, or a combination thereof.
- 59. (Original) The method of claim 58, further comprising: providing a further bridle segment extending between the upper and lower rotatable towpoints.
- 60. (Original) The method of claim 59, further comprising: rotating the rotatable towpoints to cause a change in the tilt angle of the deflector.
- 61. (Original) The method of claim 60, wherein the upper and lower rotatable towpoints are pulleys, and wherein the bridle segments form a loop that extends around the pulleys.
- 62. (Original) The method of claim 60, further comprising: repositioning the bridle segment extending between the at least two rotatable towpoints.
- 63. (Currently Amended) The method of claim 49, further comprising: repositioning the <u>first\_upper connection point</u>, the <u>first\_lower connection point</u>, or a combination thereof.
- 64-65. (Cancelled)
- 66. (Currently Amended) The method of claim [[64]]49, further comprising:

  coupling a third segment of the bridle to a second upper rotatable towpoint,

  wherein the second upper rotatable towpoint is located at a horizontal distance away

  from the first upper rotatable towpoint;

coupling a fourth segment of the bridle to a second lower rotatable towpoint, wherein the second lower rotatable towpoint is located at the horizontal distance away from the first lower rotatable towpoint; and

controlling thean angle of attack by adjusting the ratio of the lengths of the first and third second segments to the lengths of the second third and fourth segments, wherein the angle of attack controls a lateral position of the deflector.

## 67-70. (Cancelled)

- 71. (New) The system of claim 1, wherein the actuator is a hydraulic cylinder coupled between the <u>first</u> upper segment and the <u>first</u> upper connection point such that the hydraulic cylinder shortens or lengthens the <u>first</u> upper segment.
- 72. (New) The system of claim 1, wherein the actuator is a hydraulic cylinder coupled between the <u>first</u> lower segment and the <u>first</u> lower connection point such that the hydraulic cylinder shortens or lengthens the <u>first</u> lower segment.
- 73. (New) The system of claim 71, further comprising a second actuator, wherein the second actuator is a second hydraulic cylinder coupled between the <u>first</u> lower segment and the <u>first</u> lower connection point such that the second hydraulic cylinder shortens or lengthens the <u>first</u> lower segment.
- 74. (New) The system of claim 1, wherein the bridle is connected to the seismic cable via an inverted toothed wheel that is rotatably driven by the actuator such that the inverted toothed wheel controls the tilt angle.
- 75. (New) The system of claim 1, further comprising a second actuator for varying an angle of attack of the deflector body, wherein the actuator and the second actuator are operated independently.

- 76. (New) The system of claim 1, wherein the deflector body further comprises an upper controllable movable flap and a lower controllable movable flap.
- 77. (New) The system of claim 76, wherein the actuator rotates the upper controllable movable flap and the lower controllable movable flap in opposite directions to control the tilt angle.
- 78. (New) The system of claim 76, wherein the actuator rotates one of the controllable movable flaps to control the tilt angle.
- 79. (New) The system of claim 1, wherein the bridle further comprises a frame having a first rigid segment, a second rigid segment, and a third rigid segment, wherein a first end of the first rigid segment is coupled to the first upper segment and a second end of the first rigid segment is coupled to the first lower segment, and wherein a first end of the second rigid segment and a first end of the third rigid segment are coupled to the seismic cable, and wherein a second end of the second rigid segment is coupled to the first end of the first rigid segment or the second end of the first rigid segment, and wherein a second end of the third rigid segment is coupled to a point on the first rigid segment.
- 80. (New) The system of claim 79, wherein the first, second and third rigid segments are pivotally connected.
- 81. (New) The system of claim 79, wherein the actuator is a hydraulic cylinder coupled to the second rigid segment, wherein the hydraulic cylinder applies a force on the second rigid segment such that the force causes a rotation of the first upper segment at the point thereby controlling the tilt angle.
- 82. (New) The system of claim 1, wherein the first upper segment, the first lower segment and the deflector body forms a geometry and the geometry is manipulated when the ratio is adjusted.

83. (New) The system of claim 1, wherein the bridle further comprises:

a second upper segment secured to a second upper connection point, wherein the second upper connection point is located at a horizontal distance away from the first upper connection point; and

a second lower segment secured to a second lower connection point, wherein the second lower connection point is located at the horizontal distance away from the first lower connection point.

84. (New) The system of claim 83, wherein the actuator is configured to vary an angle of incidence by varying the lengths of the first upper segment, the second upper segment, the first lower segment, and the second lower segment, wherein the angle of incidence controls a lateral position of the deflector body.